WHAT IS CLAIMED IS:

1. An A^1-B-A^2 polymer consisting of segments A^1 and A^2 each comprising at least either of a modified amino acid group whose functional group is protected with a protective group and an unmodified amino acid group whose functional group is not protected with a protective group, and segment B consisting of polyethylene glycol having a number average molecular weight of 8000 to 50000, with segment A^1 binding to one end of segment B and segment A^2 binding to the other end of segment B,

wherein said polymer comprises both the modified and unmodified amino acid groups, and the content of the modified amino acids is 20 to 85 mol% of all the amino acids in the polymer, and

wherein said polymer has a number average molecular weight of 10000 to 100000.

2. The A^1-B-A^2 polymer of claim 1, wherein the total number average molecular weights of segments A^1 and A^2 is 20 to 70 % of the number average molecular weight of the A^1-B-A^2 polymer.

3. The A^1-B-A^2 polymer of claim 1, wherein said protective group of the modified amino acid group is selected from the group consisting of methyl, ethyl, propyl, isopropyl, n-butyl, s-butyl, t-butyl, acetyl, propionyl, benzyl, benzyloxycarbonyl, and o-nitrophenylsulfenyl groups, and

aliphatic groups having 4 to 18 carbon atoms, and alicyclic groups having 4 to 18 carbon atoms.

4. The A^1-B-A^2 polymer of claim 1, wherein a raw material amino acid for the modified and unmodified amino acid groups is at least one material selected from the group consisting of L-glutamic acid and L-aspartic acid.

5. The A^1-B-A^2 polymer of claim 1, wherein the modified amino acid group is selected from the group consisting of β-benzyl-L-aspartate and γ-benzyl-L-glutamate.

6. A bioabsorbable material comprising the A^1-B-A^2 polymer of claim 1.

7. A tissue anti-adhesion film obtained by forming the bioabsorbable material of claim 6 into a film shape.

8. The tissue anti-adhesion film of claim 7, wherein the content of the modified amino acids is 20 to 85 mol% of all the amino acids in the film.